

Atty. Dkt. No. 034827-1401

SPECIFICATION

Amendments to the Specification:

Please amend paragraph 73 as follows:

[0073] Centrifugation is carried in ~~BioMek-2000~~ BIOMEK® 2000 or Vortex (VWR; G-560) instruments and centrifuges for spinning PCR trays (Sorvall T6000D).). The 96-well-plate centrifugation system from Qiagen may also be used. Microcentrifuges such as those from Eppendorf are used with Microcentrifuge tubes (from, e.g., National Scientific, CN065S-GT).

Please amend paragraph 80 as follows:

[0080] In order to process a large number of samples, a multipurpose automated or semi-automated programmable workstation is used (Meldrum, Automation for Genomics, Part One: Preparation for Sequencing, Genome Research, 10:1081-1092, 2000; Meldrum, Automation for Genomics, Part Two: Sequencers, Microarrays, and Future Trends, Genome Research, 10:1288-1303, 2000). Preferred features of the workstation include the ability to rapidly and accurately pipette, dilute and dispense small volumes of liquids. The exemplary programable workstation used herein is the ~~BioMek-2000~~ BIOMEK® 2000 (Beckman Coulter, Inc.).

Please amend paragraph 142 as follows:

[0142] For automated PCR setup on the ~~BioMek-2000~~ BIOMEK® 2000 robotic workstation, the PCR tray, a box of Robbins 125 µL pipet tips, a box of 20 µL pipet tips, the Qiagen sample tray and the reagent reservoir (trough) are placed at the appropriate positions on the ~~BioMek~~ BIOMEK® 2000 work surface. If the PCR or subsequent steps are set up manually, the same master mix recipe/digestion recipe is used, and the assay proceeds as described below without the BIOMEK® 2000 ~~BioMek~~, and single or multichannel pipettors and tips are used.

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Please amend paragraph 144 as follows:

[0144] The ~~BioMek~~ BIOMEK® 2000 station first pipets 20 µl of the master mix into each 0.2 ml PCR tray wells, and then adds 5 µl specimen DNA or control. The wells are tightly sealed with PCR tube caps or Microseal A film. The sample tray is briefly (~ 5 s) vortexed and spun down for about 30 s in a plate centrifuge at 2,000-6,000g (1,600 rpm in a Sorvall T6000D centrifuge).

Please amend paragraph 159 as follows:

[0159] SAP-digested samples are prepared according to Example 4.5 for loading using a BIOMEK® 2000 ~~BioMek 2000~~. The SNaPSHOT product is diluted 15-fold with water, and then 2 µl of the diluted product is mixed with 10.5 µl of the Loading Mix. The plate is covered with septa, vortexed and spun down in the plate centrifuge. The plate is heated at 95°C for 5 minutes, then immediately placed on ice for 3 minutes or until use. The plate is spun down in a plate centrifuge to collect condensation. The plate is then assembled and loaded onto the ABI3100 Genetic Analyzer.

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Please amend "Figure 1" on page 33 as follows:

Figure 1: TIGR/Myocilin's exon 3 SEQ ID NO: 9

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1      gatcattgtc tgtgtttgga aagattatgg attaagtggg gcttcgtttt cttttctgaa
61     ttaccagga tgtggagaac tagtttgggt aggagagcct ctcacgctga gaacagcaga
121    aacaattact ggcaagtatg gtgtgtggat gcgagacccc aagccacac acccctacac
181    ccaggagacc acgtggagaa tcgacacagt tggcacggat gtccgccagg tttttgagta
241    tgacctcatc agccagttta tgcaggggcta cccctctaag gtccacatac tgcctaggcc
301    actggaaagc acgggtgctg tgggtgtactc ggggagcctc tatttccagg gcgctgagtc
361    cagaactgtc ataagatatg agctgaatac cgagacagtg aaggctgaga aggaatatcc
421    tggagctggc taccacggac agttcccgtt ttcttggggg ggctacacgg acattgactt
481    ggctgtggat gaagcaggcc tctgggtcat ttacagcacc gatgaggcca aagggtgccat
541    tgtcctctcc aaactgaacc cagagaatct ggaactcgaa caaacctggg agacaaacat
601    ccgtaagcag tcagtcgcca atgccttcac catctgtggc accttgtaca ccgtcagcag
661    ctacacctca gcagatgcta ccgtcaactt tgcttatgac acaggcacag gtatcagcaa
721    gacctgacc atcccattca agaaccgcta taagtacagc agcatgattg actacaaccc
781    cctggagaag aagctctttg cctgggacaa cttgaacatg gtcacttatg acatcaagct
841    ctccaagatg tgaaaagcct ccaagctgta caggcaatgg cagaaggaga tgctcagggc
901    tcctgggggg agcaggctga agggagagcc agccagccag ggcccaggca gctttgactg
961    ctttccaagt ttccattaat ccagaaggat gaacatggtc accatctaac tattcaggaa
1021   ttgtagtctg agggcgtaga caatttcata taataaatat cctttatctt ctgtcagcat
1081   ttatgggatg tttaatgaca tagttcaagt tttcttgtga ttggggcaa aagctgtaag
1141   gcataatagt ttcttctga aaaccattgc tcttgcatgt tacatgggta ccacaagcca
1201   caataaaaag cataacttct aaaggaagca gaatagctcc tctggccagc atcga
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Please amend "Figure 2" on page 34 as follows:

Figure 2: TIGR/Myocilin's promoter sequence SEQ ID NO: 10

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1      agcgcagggg aggagaagaa aagagagggg tagtgtatga gcaagaaaga cagattcatt
61     caagggcagt ggggaattgac cacaggggatt atagtccacg tgatcctggg ttctaggagg
121    cagggctata ttgtgggggg aaaaaatcag ttcaagggaa gtctgggagac ctgatttcta
181    atactatatt ttctctttac aagctgagta attctgagca agtcacaagg tagtaactga
241    ggctgtaaga ttacttagtt tctccttatt aggaactcct ttctctgtg gagtttagcag
301    cacaagggca atcccgtttc ttttaacagg aagaaaacat tcctaagagt aaagccaaac
361    agattcaagc ctagggtcttg ctgactatat gattgggttt ttgaaaaatc atttcagcga
421    tgtttactat ctgattcaga aaatgagact agtacccttt ggtcagctgt aaacaaacac
481    ccatttgtaa atgtctcaag ttcaggctta actgcagaac caatcaataa agaatagaat
541    ctttagagca aactgtgttt ctccactctg gaggtgagtc tgccagggca gtttggaat
601    atttacttca caagtattga cactgtgtgt ggtatttaaca acataaagtt gctcaaaggc
661    aatcattatt tcaagtggct taaagttact tctgacagtt ttggtatatt tattggctat
721    tgccatttgc tttttgtttt ttctctttgg gtttattaat gtaaacgagg gattattaac
781    ctacagtcca gaaagcctgt gaatttgaat gaggaaaaaa ttacattttt gtttttacca
841    ccttctaact aaatttaaca ttttattcca ttgcgaatag agccataaac tcaaagtggg
901    aataacagta cctgtgattt tgtcattacc aatagaaatc acagacattt tatactatat
961    tacagttgtt gcagatacgt tgaagtga atatttatac tcaaaactac tttgaaatta
1021   gacctcctgc tggatcttgt ttttaacata ttaataaaac atgtttaaaa ttttgatatt
1081   ttgataatca tatttcatta tcatttgttt cctttgtaat ctatatttta tatatttgaa
1141   aacatctttc tgagaagagt tccccagatt tcaccaatga ggttcttggc atgcacacac
1201   acagagtaag aactgattta gaggctaaca ttgacattgg tgccagagat gcaagactga
1261   aattagaaag ttctcccaaa gatcacaggt tgttttaaag ctagggtgga ggggggaaat
1321   ctgccgttcc tataggaatg ctctccctgg agcctggtag ggtgctgtcc ttgtgtctg
1381   gctggctgtt atttttctct gtccctgcta cgtcttaaag gactgttttg gatctccagt
1441   tcctagcata gtgcctggca cagtgcaggt tctcaatgag ttgacagagt gaatggaaat
1501   ataaactaga aatatatcct tgttgaaatc agcacaccag tagtcctggt gtaagtgtgt
1561   gtacgtgtgt gtgtgtgtgt gtgtgtgtgt gtaaaaccag gtggagatat aggaactatt
1621   attgggggat ggggtgcataa attgggatgt tcttttttaa aagaaactcc aaacagactt
1681   ctggaagggt attttctaag aatcttgctg gcagcgtgaa ggcaaccccc ctgtgcacag
1741   cccacccag cctcacgtgg ccacctctgt ctcccccat gaagggtctg ctccccagta
1801   tatataaacc tctctggagc tcgggcagta gccagcaagg ccaccatcc aggcacctct
1861   cagcacagca gagctttcca gaggaagcct caccaagcct ctgcaatgag gttcttctgt
1921   gcacgttgc gcagctttgg gcctgagatg ccagctgtcc agctgtgct tctggcctgc
1981   ctggtgtggg atgtgggggc caggacagct cagctcagga aggccaatga ccagagtggc
2041   cgatgccagt ataccttcag tgtggccagt cccaatgaat ccagctgccc agagcagagc
2101   caggccatgt cagtcaccca taacttacag agagacagca gcacccaacg cttagacctg
2161   gagggcacca aagctcgact cagctccctg gagagcctcc tccaccaatt gaccttggac
2221   caggctgcca ggccccagga gaccaggag gggctgcaga gggagctggg caccctgagg
2281   cgggagcggg accagctgga aacccaaacc agagagtggg agactgcta cagcaacctc
2341   ctccgagaca agtcagttct ggaggaagag aagaagcgac taaggcaaga aaatgagaat
2401   ctggccagga ggttggaag cagcagccag gaggtagcaa ggctgagaag gggccagtgt
2461   cccagaccc gagacactgc tcgggctgtg ccaccaggct ccagagaagg taagaatgca
2521   gagtgggggg actctgagtt cagcaggtga tatggctcgt agtgacctg tacaggcgtc
2581   ccaggcctcc ctgcctgccc tttctctag agactgcaca gctagcaca gacagatgaa
2641   ttaaggaaag cacagcgtc acctcaagt attactagta atttagctcc tgagagctc
2701   atttagatta gtggttcaga gttctgtgc cctccatgt cagtttccac agtccatagc
2761   aaaaggagaa ataaaaggac cgggtgagat gtgtctgcat

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